

WHAT IS CLAIMED IS:

1. A method for manufacturing a solid core of laminations, the method comprising the steps of:

cutting a sheet metal web in a longitudinal direction of the sheet metal web to produce at least two sheet metal strips;

separating the sheet metal strips in a direction transverse to the longitudinal direction of the sheet metal strips to form laminations;

joining the laminations to form a solid core.

2. The method according to claim 1, wherein in the step of cutting the sheet metal strips are cut to different widths.

3. The method according to claim 1, further comprising the step of providing the sheet metal strips with positive-locking elements before the step of separating.

4. The method according to claim 3, wherein the positive-locking elements are wart-shaped projections.

5. The method according to claim 1, wherein the step of joining comprises the step of interlocking the laminations to form the solid core.

6. The method according to claim 1, wherein the step of joining comprises the steps of providing a tubular receptacle and inserting the laminations into the tubular receptacle to form the solid core.

7. The method according to claim 1, wherein the step of joining

comprises the step of riveting the laminations to form the solid core.

8. The method according to claim 1, wherein the step of joining comprises the step of welding the laminations to form the solid core.

9. The method according to claim 1, wherein the step of joining comprises the step of wrapping the laminations to form the solid core.

10. The method according to claim 1, wherein the step of joining comprises the step of gluing the laminations to form the solid core.

11. The method according to claim 1, wherein the step of joining comprises the step of providing a joining tool to connect the laminations.

12. The method according to claim 10, wherein the joining tool comprises at least two tool parts defining a cavity for the laminations.

13. The method according to claim 12, wherein the step of joining comprises the step of moving the tool parts toward the laminations.

14. The method according to claim 13, wherein the step of joining comprises the step of moving the tool parts independently from one another toward the laminations.

15. The method according to claim 1, further comprising the step of deburring the laminations after the step of joining.

16. The method according to claim 15, wherein the step of joining comprises the step of providing a joining tool with tool parts to connect the laminations, wherein, in the step of deburring, the tool parts of the joining tool are

moved toward the laminations such that the burrs are pressed away by plastic deformation.

17. The method according to claim 1, further comprising the step of plastically deforming the longitudinal edges of the laminations of the solid core after the step of joining to form deformed areas.

18. The method according to claim 17, wherein the laminations are plastically deformed such that the outer sides of the deformed areas are located on a common cylinder mantle surface.

19. The method according to claim 17, wherein the step of joining comprises the step of moving the tool parts toward the laminations.

20. The method according to claim 17, wherein, in the step of plastically deforming, areas of the laminations are displaced into interstitial spaces between the laminations and the wall of a cavity of the joining tool.

21. The method according to claim 20, wherein areas of the laminations that are displaced almost completely fill the interstitial spaces.